



SmartLink

Dementia & Patient Profiler



INSTALLATION MANUAL

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1. Equipment List

The SmartLink Dementia & Patient Profiler package should contain the following:

- Patient Profiler Wall Controller Unit (DPC-01)
- Relay Module Box (DPR-01)
- Demonstration Software Ver1.4 (DPS-01) *(Full Version Purchased Separately)*
- 5m RJ12-6Pin cable to connect wall controller to relay module
- Installation Manual

2. Overview

Introduction

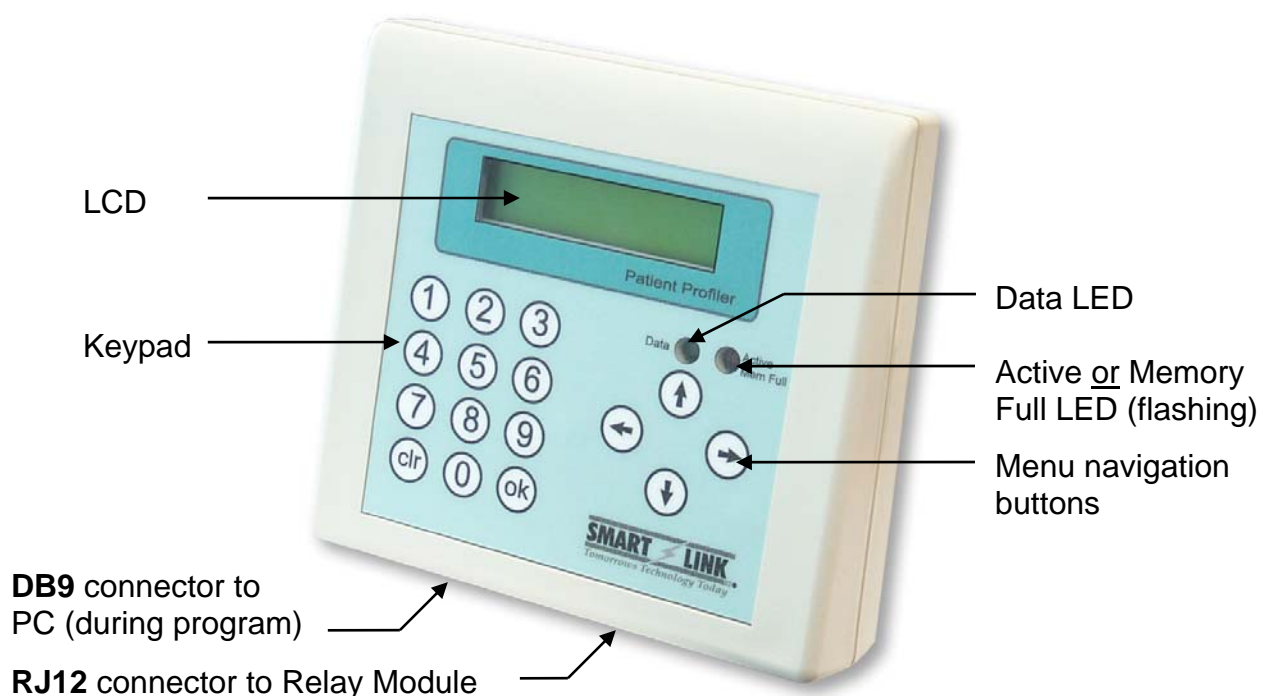
The SmartLink Dementia & Patient Profiler System provides a convenient method of monitoring and logging patient activity. The system is comprised of three components: the **Wall Controller Unit (DPC-01)**, the **Relay Module Box (DPR-01)** and the **Windows Software Ver1.3 (DPS-01)**. Typically the Wall Controller unit provides a simple access point where a patient's activity may be reviewed and changes made to their profile. The term "patient profile" is used to describe a patient's "normal" activity. In the event that a patient strays from the set profile, an alarm is raised, and the event is logged in memory. The ease of use and simplicity of the Dementia & Patient Profiler make it an ideal system for monitoring and controlling patient activity.

Wall Controller Unit (DPC-01)

The Wall Controller of the Dementia & Patient Profiler is primarily intended for use by the Nursing Staff to view a patients log and also by System Administrators to review and alter a patient's profile. Depending on the user, certain functions of the Dementia & Patient Profiler may or may not appear on the menu system (*see Section 4 – "System Setup via Keypad"*).

Although a majority of the programming may be done from the keypad, there are certain functions that can only be done using the Dementia & Patient Profiler Software such as changing Timer Names and Access Pins. Other benefits of the software also include being able to quickly upload device settings and patient logs (*see section 5 – "System Setup via Software"*).

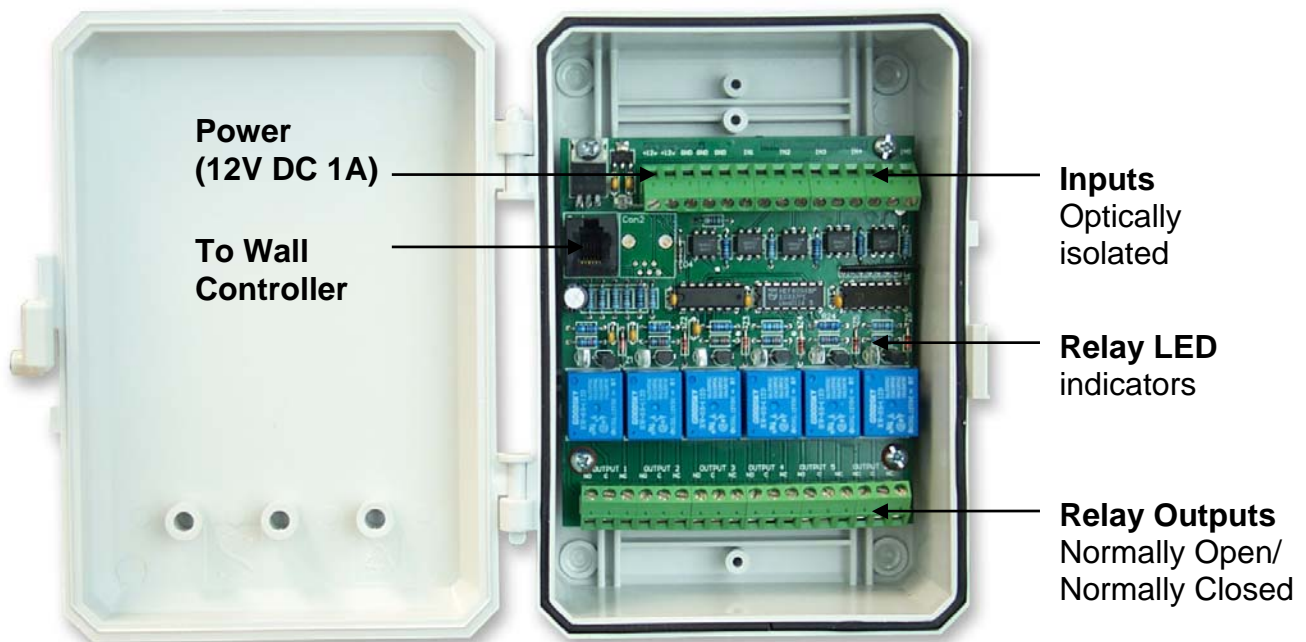
Figure 1 - Patient Profiler Wall Controller (DPC-01)



Relay Module Box (DPR-01)

The Relay Module Box contains **5 optically isolated Inputs and 6 relay Outputs**. By default, the primary **Input 1** is the **Out of Bed** sensor (normally closed) and is used logically to enable each of the other Inputs (i.e. all other inputs are disabled until Input 1 is triggered). All inputs have an individual relay output, which will operate after a programmed time has expired unless the patient returns to bed. A sixth relay provides an additional output capability that can be programmed as any logic combination of input 1 and inputs 2 to 5.

Figure 2 - Relay Module Box (DPR-01)



Each of the 5 inputs are allocated a delay time expressed in seconds ranging from 0 to 999. Provided the input is triggered within a valid Time Zone a corresponding output Relay will trigger. If a Timer period overlaps a Time Zone (Day or Night mode), then on the change of Time zone the timer is restarted at 0.

Each time an Input/Timer expires a LOG is generated with time & date stamp. If the combinational logic is right for operation of output 6 then this is also recorded in the LOG.

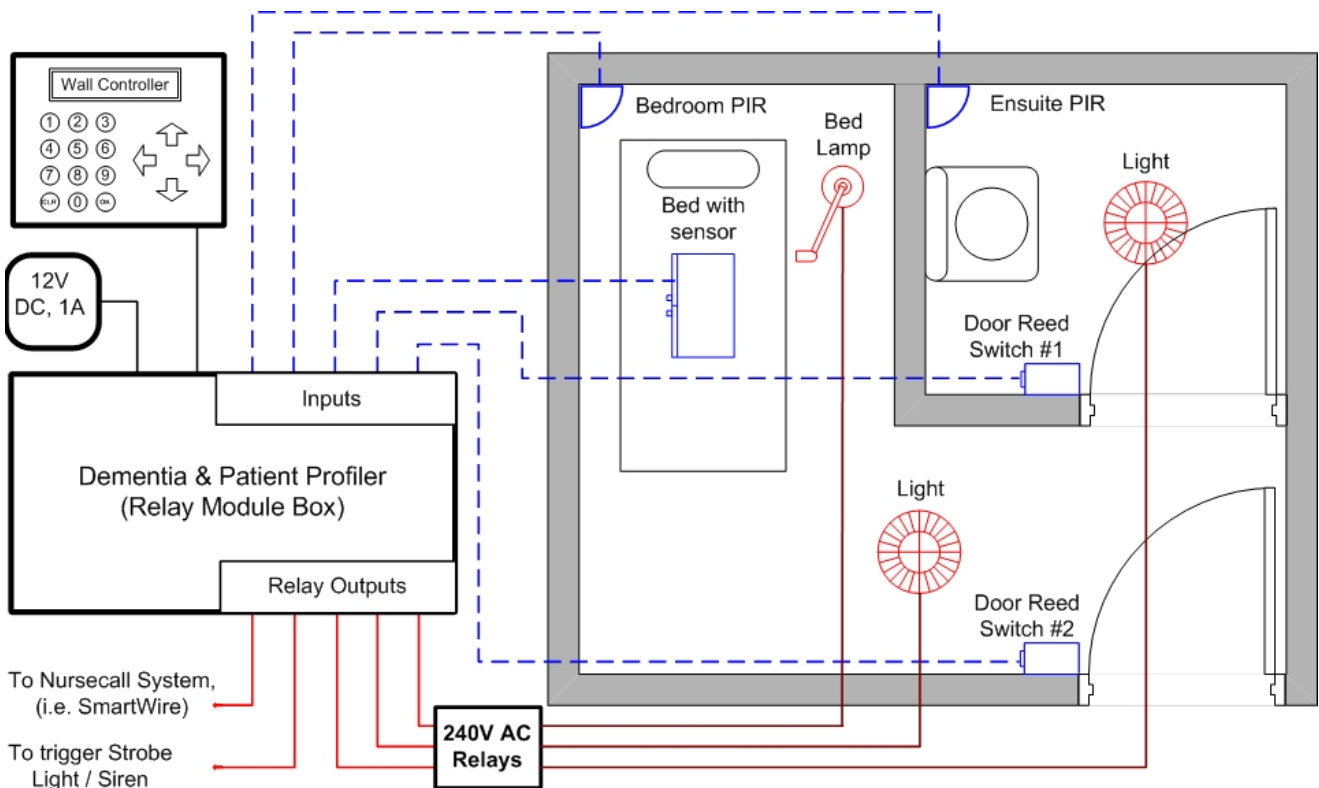
An automatic reset will occur on all inputs if the Bed Input restores to normal regardless of the Time Zone.

By default, the 5 inputs are labeled as shown:

- **Input 1 (Normally Closed) – Bed Exit**
- **Input 2 (Normally Open) – Room PIR**
- **Input 3 (Normally Open) – Ensuite PIR**
- **Input 4 (Normally Open) – Door Reed #1**
- **Input 5 (Normally Open) – Door Reed #2**

Relay Outputs 1 to 6 use low voltage N/O (Normally Open) and N/C (Normally Closed) contacts rated at **24VDC 1Amp** and if required to operate lighting, then a further relay or contact can be used for the 240VAC lighting circuit.

Figure 3 – Example of a basic System Setup



Software Requirements

The Dementia & Patient Profiler Software (DPS-01) may operate on any IBM compatible PC running Windows 2000 or Windows XP. Serial communication may be established using Com Ports 1 to 8 via a standard DB9 serial cable. Device logs and settings may be uploaded to the PC with the option to clear the device memory.

Cable Requirements

The Dementia and Patient Profiler System comes complete with a 5m connection cable between the **Wall Controller Unit (DPC-01)** and the **Relay Module Box (DPR-01)**. However, if the need arises to increase the distance between the Wall Controller and the Relay Module Box, the maximum distance of **15m** should not be exceeded. Cable required for extensions is RJ12-6 Pin in line.

Power Supply

The System will operate from either 12VDC un-regulated supply or a regulated 12VDC power supply. If any external equipment such as a PIR is to be connected in parallel with this power supply, it is recommended that a regulated power supply be used. Please ensure that the current requirements are within the maximum specified.

3. Wiring – system pinouts

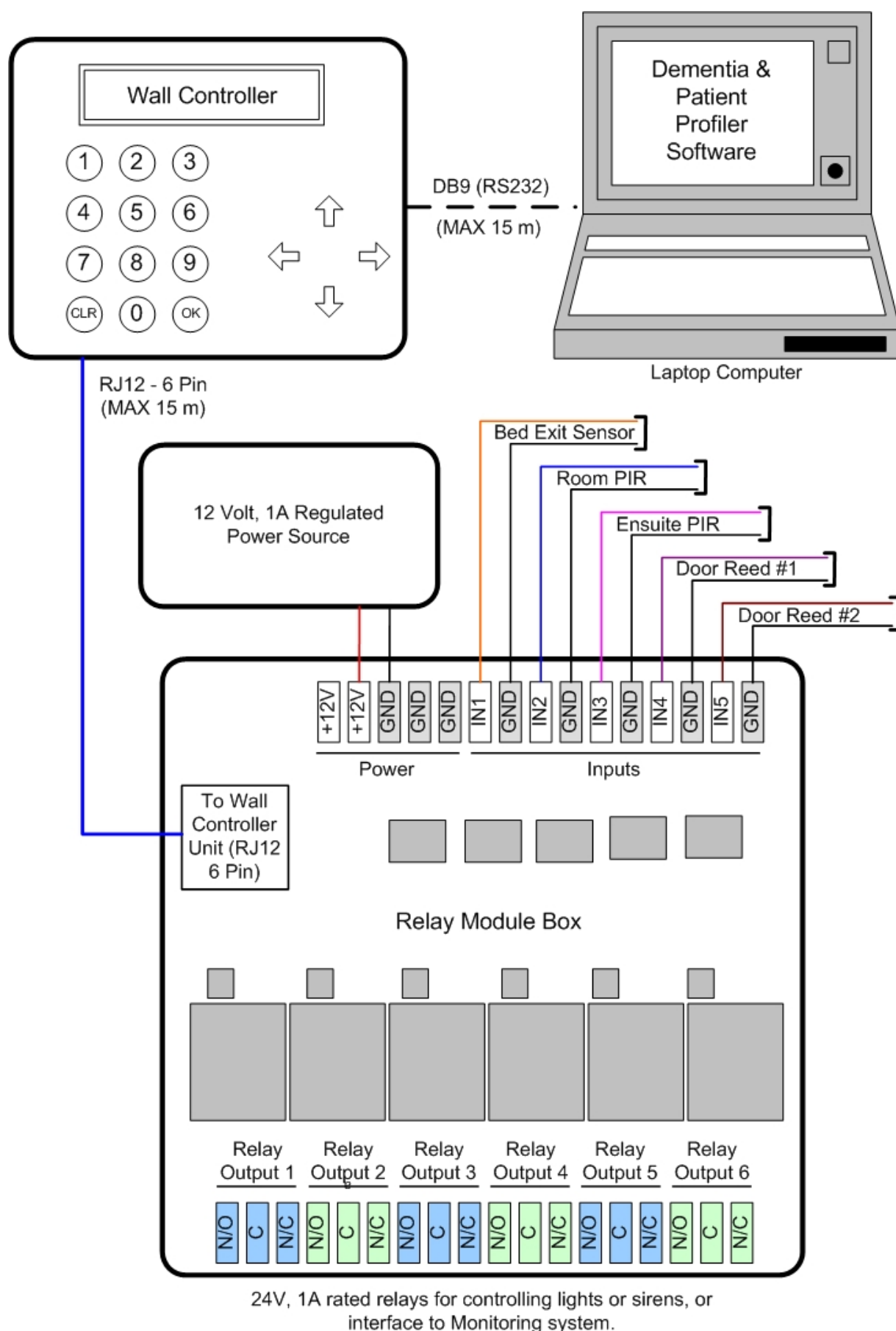


Figure 4 – System Connections and Pin-outs

4. System Setup via Keypad

Patient Profiler Wall Controller (DPC-01) Commands

The LCD display found on the Wall Controller Unit will normally display the current Date and Time. During this period the unit will accept up to 2 PIN numbers. By entering either the **limited** or **full** access PIN, the user may toggle through a menu system that corresponds to the pin number. While in the menu system, unit will default back to requesting PIN again if no key is pressed within 30 seconds.

Limited access enables a Nurse to view but not edit parameters. The Menus are described in the following table:

Limited Access Menu (Default Pin Code = 1234)

0.	DISABLE / ENABLE INPUTS (RED LED INDICATES UNIT IS ACTIVE)
1.	View Log
2.	View Timers
3.	View I/O Logic
C.	Exit Menu (Press clr to Exit Menu)

The menu may be browsed using the **up/down keys** and selection made using the **OK** key. Alternatively if the Item number is known then this provides a direct shortcut to the selection.

Full Access Menu (Default Pin Code = 4321)

0.	DISABLE / ENABLE INPUTS (RED LED INDICATES UNIT IS ACTIVE)		
1.	View Log (on screen display of log of events)		
2.	<u>Timers</u>	1.	View Timers
		2.	Edit Timers
		3.	Edit Time Zones
		4.	Load Defaults (See Appendix)
3.	View I/O Logic (for Relay Output 6 only)		
4.	Set Time		
5.	Set Date		
6.	Test Outputs		
7.	Test Inputs		
8.	View Device ID		
9.	<u>Device Options</u>	1.	Memory LED – on/off
		2.	Beeper – on/off
		3.	Input Polarity
C.	Exit Menu (Press clr to Exit Menu)		

0. Disables / Enables the Inputs

In the event of a patient being moved to theatre or another room or being discharged.

1. View Log

Enables the current log to be viewed without downloading information to the computer (Windows Software).

2. Timers

Edit Timers provides access to sub-menu where you can either view or edit Timers and Time Zones. For convenience the DPC has the facility to edit the timer values, as may be required with over regular alarms on a particular patient.

3. View I/O Logic

For Relay 6, Output is setup on the computer and transferred to the Wall Controller unit (DPC-01) on initial setup. The actual logic condition however can be viewed but not changed with this function.

4.& 5. Set Time and Date

Note that when device settings are transferred from a PC to the Wall Controller Unit, the Computer Time and Date is also transferred.

6. Test Outputs

The relay outputs may be individually tested with this function. An on board LED indicates the status of each relay. Pressing #1 will toggle relay 1 on/off with the status shown on the display. On pressing Clr all relays will turn off again.

7. Test Inputs

By activating the detector the status of the Input will be displayed.

8. View Device ID

To View Wall Controller Unit ID (eg. SL-0904001).

9. Device Options

To activate Memory LED On/Off, activate Beeper On/Off Options & Select Input Polarity.

C. Exit Menu

Press the **clr** key to Exit Menu.

5. System Setup via Software

Software Installation

Insert the Dementia & Patient Profiler CD into the CD-ROM drive. The software should automatically begin installation. If for any reason installation does not commence, double click on My Computer, then select the CD drive containing the software. Double click on the **setup.exe**. Follow the setup instructions to complete the setup process.

In some instances during installation you may be prompted to select between two identical files. Choose the file that is the “newest”. After the program is installed you may run it by going to Start and then by selecting Programs. Under Programs you will see the newly installed program “Patient Profiler”.

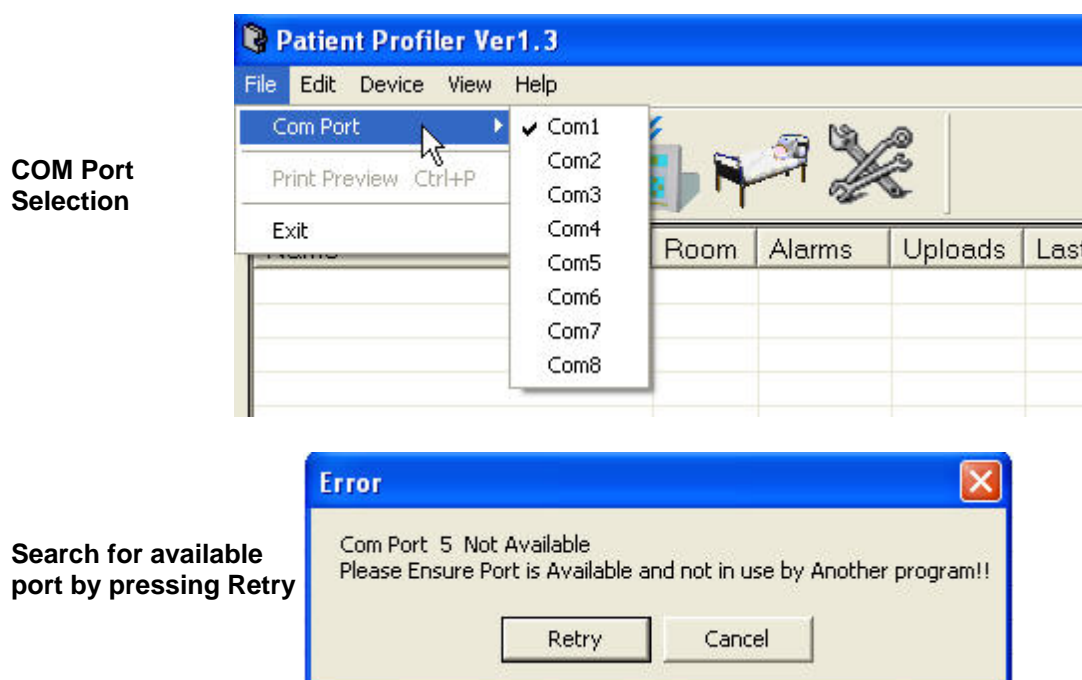
The Dementia and Patient Profiler Program will operate for 30 openings (Loads) as a Demonstration package then automatically shut down permanently until a special security code is provided. After this time, the software must be purchased and enabled from SmartLink International.

Reading Device ID

To ensure accurate logging of patient data, each controller has a unique device **ID Number**, which is printed on the back of the Wall Controller. Alternatively, if the controller is physically connected to the computer then the device ID will be automatically read by the program and displayed on the lower left hand corner of the screen. If you are setting up a database without connection to each of the devices then you will need to know the device ID when setting up Room Details.

Setting COM Port

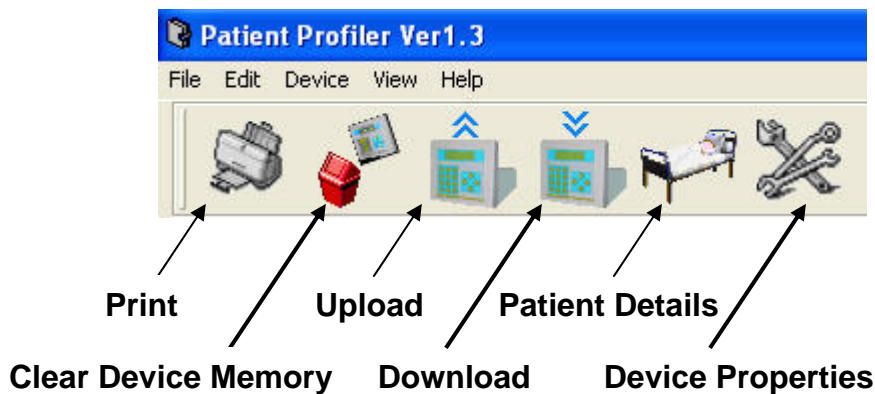
When selecting a **COM Port** please ensure that the port selected is available for use otherwise an **Error** message will be displayed. Selecting the “Retry” button on the error message will allow the software to scan the next port for availability.



Using Shortcut Buttons

Several shortcut buttons can be found on the top of the main menu. These icons initiate the most commonly used features of the software such as **Upload / Download, Clear Device Memory, Patient Details**, and **Device Properties**.

Shortcut buttons



Editing Room Details

The Patient Profiler Windows Software (DPS-01) is capable of individually reading and writing information to and from multiple Patient Profiler units (DPC-01).

The software identifies the different units from each other by using the unique **Device ID** given to every Patient Profiler unit. Establishing a link between the Device ID and the room number will be the starting point to setting up a system.

The Room Details are accessed under the **Edit** Menu. Four fields allow Room Number, Room Name, Device ID, and Notes to be recorded.

The key fields which must be filled out are **Room Number** and **Device ID**. These two fields are critical when setting up a new device as they determine which device goes with which room.

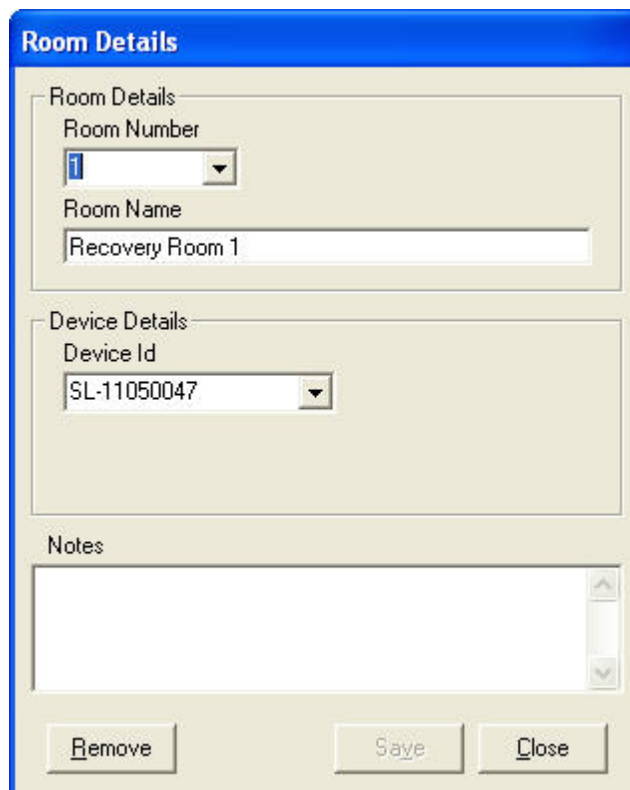
The Room Name and Notes fields do not have to be filled out and are optional. However the Notes field can be used to record installation date and any other changes that you make throughout the history of the product.

Hint: *If there is more than 1 patient per room, you may put a letter after the room number to indicate that there is more than one Dementia & Patient Profiler Unit in that room.*

Single Room Listing with Multiple Devices

Room	Name	Uploads	Last Upload	Device Id	Room Notes
1	Recovery Room 1	1	21/09/2006	SL-11050047	
1a	Test Room 1a			SL-62626262	
1b	Test Room 1b			SL-43434343	

Room Details



The 'Room Details' window is a software interface for entering room information. It has a blue title bar and a light beige background. It is divided into three main sections: 'Room Details', 'Device Details', and 'Notes'. The 'Room Details' section contains a 'Room Number' dropdown menu with '1' selected and a 'Room Name' text field containing 'Recovery Room 1'. The 'Device Details' section contains a 'Device Id' dropdown menu with 'SL-11050047' selected. The 'Notes' section is a large empty text area with vertical scrollbars. At the bottom, there are three buttons: 'Remove', 'Save', and 'Close'.

Room Details

Room Details

Room Number
1

Room Name
Recovery Room 1

Device Details

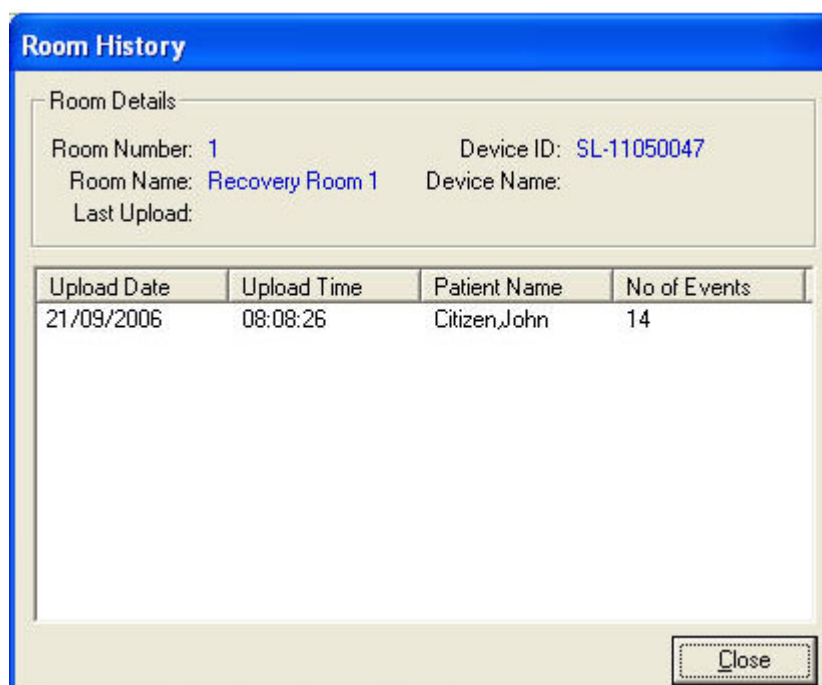
Device Id
SL-11050047

Notes

Remove Save Close

After entering the room details you may view a summary of the records by selecting **View** and then selecting **Room Listing**. Double clicking on any of the records will bring up the Room History window which summarises all the activity for that room.

Room History



The 'Room History' window displays a summary of room details and a table of event records. It has a blue title bar and a light beige background. The 'Room Details' section at the top shows 'Room Number: 1', 'Room Name: Recovery Room 1', 'Last Upload:', 'Device ID: SL-11050047', and 'Device Name:'. Below this is a table with four columns: 'Upload Date', 'Upload Time', 'Patient Name', and 'No of Events'. The table contains one row of data. A 'Close' button is located at the bottom right.

Room History

Room Details

Room Number: 1 Device ID: SL-11050047
Room Name: Recovery Room 1 Device Name:
Last Upload:

Upload Date	Upload Time	Patient Name	No of Events
21/09/2006	08:08:26	Citizen, John	14

Close

Edit Patient Details

The Patient Details are accessed under the **Edit** Menu. Nine fields allow Surname, First name, Address, Phone, Contact Name, Contact Phone, Contact Address, Room Number, and Notes to be recorded. The key fields that must be filled out are the **First and Last Names**. The **Room Number** field may be left as “none” or assigned to a Room if known. The Name and Room Number fields are critical as they make a connection between the Patient and the Room Number. The remaining fields do not have to be filled out. The **Notes** field may be used to store important information about the patient such as any medical conditions.

Patient Details

The screenshot shows a software window titled "Patient Details" with a blue header bar. The form is divided into several sections. The "Personal" section includes dropdown menus for "Surname" (set to "Citizen") and "First Name" (set to "John"), a text field for "Address" (containing "1 Polermo Sreet"), and a text field for "Phone" (containing "911293934"). The "Contact" section includes text fields for "Name" (containing "Adam Citizen (brother)") and "Phone" (containing "045343455345"), and a text field for "Address" (containing "1 Toscano Drive"). Below these are fields for "Room Number" (a dropdown set to "1") and "Room Name" (a text field containing "Recovery Room 1"). A "Notes" section features a large text area with the text "Mr Citizen is a diabetic." At the bottom of the form are three buttons: "Remove", "Save", and "Close".

Once all the patient details are entered, you may view a summary of the records by selecting **View** and then selecting **Patient Listing**. Double clicking on any of the records will bring up a new window on the right hand side of the screen labeled **Patient History**. This window will contain a summary of the patient's details and also a log of their activity. The log may be viewed in a graphical representation or be printed out by pressing the **Graph** and **Print Preview** buttons respectively.

Patient History

Patient History

Patient Details

Name: [Citizen, John](#) Contact: [Adam Citizen](#)
 Room: [1](#) Phone: [045343455345](#)
 Phone: [911293934](#) Notes: [Mr Citizen is a diabetic.](#)
 Address: [1 Polermo Sreet](#)

Show All

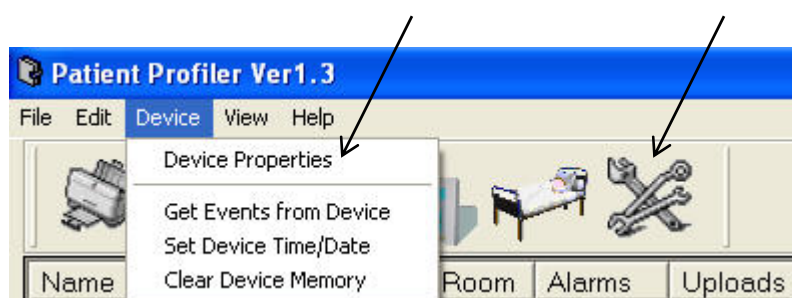
Event	Input	Date	Time
xxxx	----- Upload -----	21/09/2006	08:08:25
000	Bed	01/01/2006	00:00:10
001	Door #1	01/01/2006	00:00:11
002	Room	01/01/2006	00:27:39
003	Alarm	01/01/2006	00:27:39
004	Door #2	01/01/2006	03:49:10
005	Alarm	01/01/2006	03:49:10
006	Bed	01/01/2006	00:00:06
007	Ensuite	01/01/2006	00:00:07
008	Room	01/01/2006	00:00:08
009	Door #1	01/01/2006	00:00:09
010	Alarm	01/01/2006	00:00:09
011	Door #2	01/01/2006	01:20:36
012	Alarm	01/01/2006	01:20:36
013	Bed	01/01/2006	01:20:46

Print Preview Graph Close

Edit Device Settings

The **Device Properties** are accessed either under the **Device** menu or by pressing the **shortcut button** found on top of the screen.

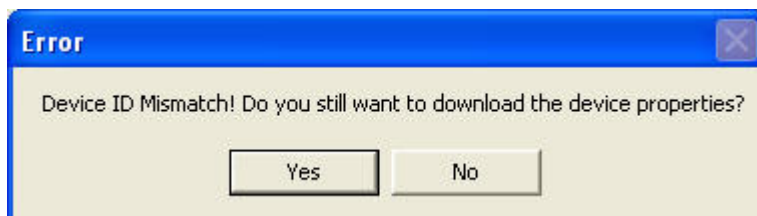
Device Properties



Selecting a room number from the pull down list will bring up the details for a particular device including **Device ID** and **Room Name**. Five menu Tabs found within the Device Properties window will allow the Device to be customized for any particular patient. (Note that the menu system found in the Dementia & Patient Profiler **Wall Controller** is a similar but simplified version of the menu system found under Device Properties.)

The Menu Tabs listed are **Timer Names**, **Timer Settings**, **Output 6 logic**, **Security**, and **Special**. Once the settings are complete they may be saved and transfer to the device by pressing the “**Save**” and “**Send**” buttons found on the bottom of the screen. Please note that a warning message will be displayed if there is a mismatch in the Device ID. (**Connection to the Device with a DB9 serial cable is essential during the send procedure.**)

Error Message displayed when ID Mismatch occurs between Hardware and Software.



The **Default** room number is configured with the Default settings. If required, these settings may be changed and saved for later use.

Timer Names

You may change or add to the Timer Names and Descriptions. Once changes are made you may save and send the information to the Profiler using the **Send** button. The changes made on the software will be reflected in the **Patient Profiler Wall Controller Unit**. Note that only the Timer Names are stored on the Profiler Unit and they cannot be changed. The Timer Descriptions are not stored on the Profiler Unit and are provided only for the benefit of the software user.

Device Properties:

Timer Names

Default Settings:

Timer Name Timer Description

1. Bed Bed Exit
2. Room Room PIR
3. Ensuite Ensuite PIR
4. Door#1 Door Reed #1
5. Door#2 Door Reed #2

Device Details	
Room Number	Room Name
Default	
Device Id	

Timer Names	
Timer Name	Timer Description
1 Bed	Bed Exit
2 Room	Room PIR
3 Ensuite	Ensuite PIR
4 Door #1	Door Reed #1
5 Door #2	Door Reed #2

Timer Settings

Under the heading of **Timer Settings**, there are two important categories: **Time Zone #1** and **Time Zone #2**. These two time zones (if used) will break up the day into two sections, **Day Mode** and **Night Mode**. If time zones are not required simply set the Time Zones to 00:00 and assign timer values to Zone #1.

The two **Seconds** columns next to the **Timer Names** indicate the time to wait before activating a corresponding relay. Timer values can range from 000 to 999 seconds (16.5 minutes).

During normal operation (i.e. patient is “in bed”) inputs 2 to 5 will be deactivated and will not respond to any inputs. Once relay 1 is triggered due to the patient being “out of bed” then all the relays are active and if any of the inputs are triggered then the corresponding relay will activate based on the time setting.

The timers begin the countdown the instant the patient gets “out of bed” and operate independently from one another, i.e. the timer setting on one input does not effect the timer setting on another input.

For example, if a patient were to get out of bed and simultaneously trigger all inputs, then relay outputs 4 and 5 will immediately latch after 3 seconds, followed by relay 3 after 57 seconds, followed by relay 1 after 240 seconds and finally by relay 2 after 90 seconds. This is based on the default settings shown below.

These settings are **accessible** via the Profiler Keypad. The settings may be viewed and changed via the keypad.

Device Properties:

Timer Settings

Default Settings:

Time Zone #1: Time Zone #2:

	7:30	19:30
1.	300	0
2.	390	0
3.	60	0
4.	3	0
5.	3	0

Device Properties

Device Details

Room Number: Default Room Name: Device Id:

Timer Names | **Timer Settings** | Output 6 Logic | Security | Special

	Time Zone #1	Time Zone #2
	07:30	19:30
Timer Name	Seconds	Seconds
1 Bed	300	0
2 Room	390	0
3 Ensuite	60	0
4 Door #1	3	0
5 Door #2	3	0

Send Save Close

Output 6 Logic

The **Output 6 Logic** tab controls the **AND logic** for the activation of the sixth relay on the relay board. Simply click to check the boxes that you want to activate the sixth relay.

For example, if the Patient gets out of bed (triggering the Bed sensor) and opens the door (triggering the Room PIR and the Door#1 reed switch) then Relay 6 will activate based on Combination #2.

These settings **cannot be changed** via the Profiler Keypad.

Device Properties:

Output 6 Logic

Default Settings:

Comb#1	1, 2, 3, 4
Comb#2	1, 4
Comb#3	1, 5
Comb#4	1
Comb#5	1

The screenshot shows the 'Device Properties' window with the 'Output 6 Logic' tab selected. The 'Device Details' section includes fields for 'Room Number' (set to 'Default'), 'Room Name', and 'Device Id'. Below this is a tabbed interface with 'Timer Names', 'Timer Settings', 'Output 6 Logic' (selected), 'Security', and 'Special'. The 'Output 6 Logic' tab contains a table with five columns: 'Bed', 'Room', 'Ensuite', 'Door #1', and 'Door #2'. There are five rows labeled 'Combination #1' through 'Combination #5'. Checkmarks are present in the following cells: (Combination #1, Bed), (Combination #1, Room), (Combination #1, Ensuite), (Combination #1, Door #1), (Combination #2, Bed), (Combination #2, Door #1), (Combination #3, Bed), (Combination #3, Door #2), (Combination #4, Bed), and (Combination #5, Bed). At the bottom are buttons for 'Send', 'Save', and 'Close'.

	Bed	Room	Ensuite	Door #1	Door #2
Combination #1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Combination #2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Combination #3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Combination #4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Combination #5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Security Settings

The **Security** tab allows the user to change the default user codes. Note that the default **Limited Menu Access** code is **1234** and the default **Full Menu Access** code is **4321**. As in all the other menu tabs, it is possible to save the settings and send them to the device using the RS232 cable.

These settings are **NOT accessible** via the Profiler Wall Controller. They may only be viewed and changed using the software.

Device Properties:

Security

Default Settings:

Pin1 1234

Pin2 4321 (Full Menu Access)

The screenshot shows the 'Device Properties' dialog box with the 'Security' tab selected. The 'Device Details' section includes fields for 'Room Number' (set to 'Default'), 'Room Name', 'Device Id', and a corresponding text field. Below this is a tabbed interface with 'Timer Names', 'Timer Settings', 'Output 6 Logic', 'Security' (selected), and 'Special'. The 'Security' tab contains two pin configuration sections: 'Pin 1' with a text field containing '1234' and an unchecked 'Full Menu Access' checkbox; and 'Pin 2' with a text field containing '4321' and a checked 'Full Menu Access' checkbox. At the bottom is a 'Notes' text area. The dialog has 'Send', 'Save', and 'Close' buttons at the bottom right.

Special Settings

The **Special** settings menu is mainly used to configure the Input Polarity of the 5 sensors, i.e. **Normally Open (N/O)** or **Normally Closed (N/C)**. There are also two other settings that allows users to enable or disable the onboard beeper and the Memory full LED. Once all the settings are correct, click on **Save** and then **Send** to device. The changes made using the PC software will be instantly reflected in the Patient Profile unit.

These settings are accessible via the Profiler Keypad. The settings may be viewed and changed via the keypad.

Device Properties:

Special

Default Settings:

Full Memory Led Flash – **Unchecked**

Disable Beeps - **Unchecked**

Bed N/Closed

Room N/Open

Ensuite N/Open

Door#1 N/Open

Door#2 N/Open

The screenshot shows the 'Device Properties' window with the 'Special' tab selected. The 'Device Details' section includes fields for 'Room Number' (set to 'Default'), 'Room Name', and 'Device Id'. Below this is a tabbed interface with 'Special' being the active tab. The 'Special' tab contains two main sections: 'Disable Full Memory Led Flash', 'Disable Beep's', and 'Proximity Reader' (all unchecked); and 'Input Polarity' for five sensors: 'Bed' (N/Closed), 'Room' (N/Open), 'Ensuite' (N/Open), 'Door #1' (N/Open), and 'Door #2' (N/Open). At the bottom are 'Send', 'Save', and 'Close' buttons.

Device Details	
Room Number	Room Name
Default	
Device Id	

Special Settings	
<input type="checkbox"/> Disable Full Memory Led Flash	Input Polarity
<input type="checkbox"/> Disable Beep's	<input type="checkbox"/> Bed N/Closed
<input type="checkbox"/> Proximity Reader	<input type="checkbox"/> Room N/Open
	<input type="checkbox"/> Ensuite N/Open
	<input type="checkbox"/> Door #1 N/Open
	<input type="checkbox"/> Door #2 N/Open

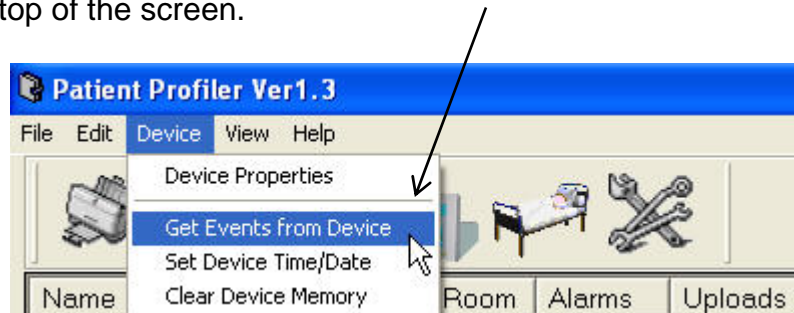
Action
Send
Save
Close

Upload Device Log & Device Settings

Using the upload function of the software, a user can upload and save the device settings and device Log from the Profiler Unit onto a PC.

Please note that uploading device settings is only available on Version 1.3 of the Profiler Units.

The **Upload** function is accessed either under the **Device** Menu or by pressing the **shortcut button** found on top of the screen.



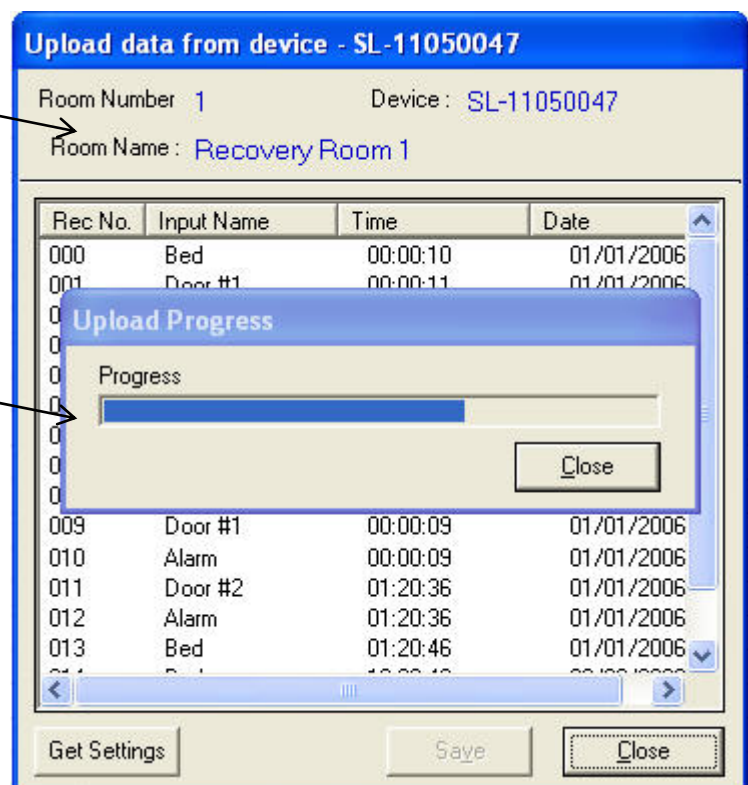
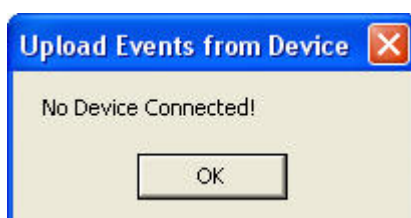
Uploading Device Log

When the LOG file reaches **900 entries**, the **Red LED on the Wall Controller (Keypad)** will **flash** momentarily every 3 seconds. This is an early warning that the device is running out of memory and the LOG needs to be uploaded to the host PC and the memory cleared. Simply connect the device to the host computer and click on the Upload icon. **If ignored, the memory will continuously record events such that only the last 1000 records are automatically retained.**

If the Device ID of the unit that is being uploaded matches the Device ID of a Room Number, then the Details of the Room are displayed and the Data stored under the corresponding Patient name.

During the Upload process a Bar will appear showing the progress of the upload.

If during the upload procedure you receive the following error message, please make sure the device is properly connected and that you can see the Device ID on the bottom left hand corner.



Uploading Device Settings

Pressing the “**Get Settings**” button on the Upload window will display the current settings of the device in the Device Properties window. The user is then given the option of either saving the settings to an existing room or saving to a new room.

Saving Device Settings using the “**Get Settings**” button.

Rec No.	Input Name	Time	Date
000	Bed	00:00:10	01/01/2006
001	Door #1	00:00:11	01/01/2006
002	Room	00:27:39	01/01/2006
003	Alarm	00:27:39	01/01/2006
004	Door #2	03:49:10	01/01/2006
005	Alarm	03:49:10	01/01/2006
006	Bed	00:00:06	01/01/2006
007	Ensuite	00:00:07	01/01/2006
008	Room	00:00:08	01/01/2006
009	Door #1	00:00:09	01/01/2006
010	Alarm	00:00:09	01/01/2006
011	Door #2	01:20:36	01/01/2006
012	Alarm	01:20:36	01/01/2006
013	Bed	01:20:46	01/01/2006
014	Bed	13:26:46	22/09/2006
015	Door #1	13:26:53	22/09/2006

A warning message will be displayed if the settings are to be saved into an existing room with different Device ID.

Save Properties (Device ID Mismatch)

There is a mismatch in Device ID, Are you sure to save the device settings into room:1

Yes No

6. Graphing and Printing Data

To view the Patient History, go to **View** and select **Patient Listing**. Simply double click on a Patient to reveal the **Patient History**. You can choose to show all the history or a particular upload date.

Patient History

Patient Details

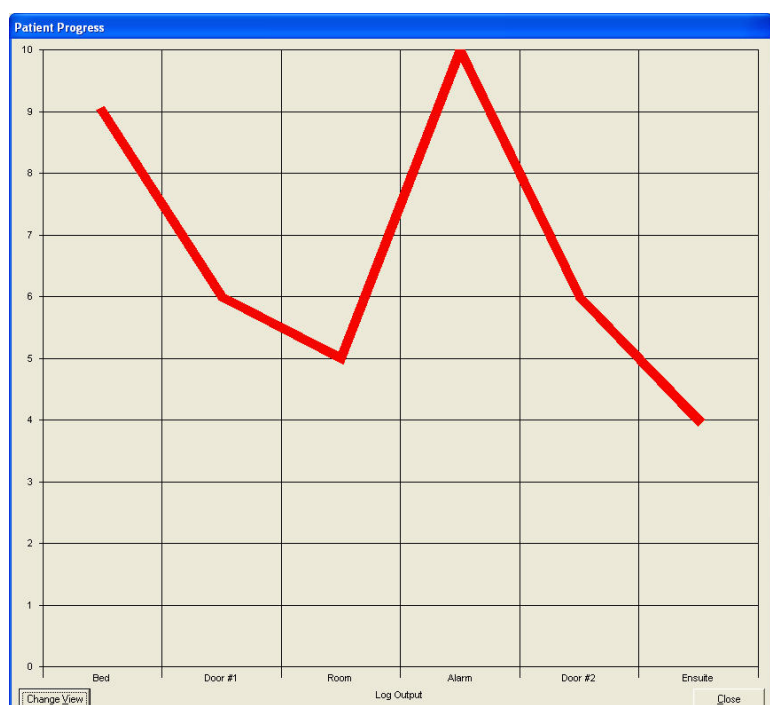
Name: Citizen,John Contact: Adam Citizen
Room: 1 Phone: 045343455345
Phone: 911293934 Notes: Mr Citizen is a diabetic.
Address: 1 Polermo Sreet

Show All

Event	Input	Date	Time
xxx	----- Upload -----	21/09/2006	08:08:25
000	Bed	01/01/2006	00:00:10
001	Door #1	01/01/2006	00:00:11
002	Room	01/01/2006	00:27:39
003	Alarm	01/01/2006	00:27:39
004	Door #2	01/01/2006	03:49:10
005	Alarm	01/01/2006	03:49:10
006	Bed	01/01/2006	00:00:06
007	Ensuite	01/01/2006	00:00:07
008	Room	01/01/2006	00:00:08
009	Door #1	01/01/2006	00:00:09
010	Alarm	01/01/2006	00:00:09
011	Door #2	01/01/2006	01:20:36
012	Alarm	01/01/2006	01:20:36
013	Bed	01/01/2006	01:20:46

Print Preview Graph Close

To view a graphical representation of this data simply click on the **Graph** button or click on the **Print Preview** button to print.



7. Quick Setup Guide Using Software

I. Enter Room Details

Must enter Room Number and Device ID.

Optional items are: Room Name and Notes.

The 'Room Details' window is a light beige dialog box with a blue title bar. It contains two main sections: 'Room Details' and 'Device Details'. The 'Room Details' section has a 'Room Number' dropdown menu with '1' selected and a 'Room Name' text field. The 'Device Details' section has a 'Device Id' dropdown menu with 'SL-11050047' selected. Below these is a 'Notes' text area. At the bottom are three buttons: 'Remove', 'Save', and 'Close'.

II. Enter Patient Details

Must enter Surname, First Name and Room Number.

Optional items are Address, Phone, Contact Name, Contact Phone, Contact Address, Room Name, & Notes

The 'Patient Details' window is a light beige dialog box with a blue title bar. It contains several sections: 'Personal' with 'Surname' (dropdown with 'Citizen') and 'First Name' (dropdown with 'John'), 'Address' (text field), and 'Phone' (text field); 'Contact' with 'Name' (text field), 'Phone' (text field), and 'Address' (text field); 'Room Number' (dropdown with '1') and 'Room Name' (text field); and a 'Notes' text area. At the bottom are three buttons: 'Remove', 'Save', and 'Close'.

III. Enter Device Properties

Select the **Room Number** from the Pull down menu.

Fill in the details for Timer Names, Timer Settings, Output 6 Logic, Security, and Special.

Press on **Save** button.

Connect the Dementia and Patient Profiler unit to the PC using a standard DB9 serial cable.

Press the **Send** button.

The Profiler Unit will **Beep** to indicate settings have been transferred.

See Page 14 to 18 for Default settings.

Device Properties

Device Details

Room Number: 1 Room Name:

Device Id: SL-11050047

Timer Names | Timer Settings | Output 6 Logic | Security | Special

	Timer Name	Timer Description
1	Bed	Bed Exit
2	Room	Room PIR
3	Ensuite	Ensuite PIR
4	Door#1	Door Reed #1
5	Door#2	Door Reed #2

Send Save Close

Hint: An easy way to setup Device Properties is to send the Default device properties to a Device and then upload the settings to a corresponding room using the “Get Settings” feature.

8. Appendix

Specifications

- **Wall Controller Unit (DPC-01)**

Size: 140 x 130 x 40mm

Connection: RJ12-6Pin to Relay Module Box
DB9 Pin (Female) to PC

- **Relay Module Box (DPR-01)**

Size: 110 x 160 x 72mm

Power: +12VDC 250mA max (relays on)

Relay: Relays are rated at 24V DC, 1A Max

Default Settings

- **Default Timers in Seconds:**

Zone 1).

1. 300 Bed Exit
2. 390 Room PIR
3. 060 Ensuite PIR
4. 003 Door Reed #1
5. 003 Door Reed #2

Zone 2).

- 0 (Note 0 disables the Input)
- 0 (Note 0 disables the Input)
- 0 (Note 0 disables the Input)
- 0 (Note 0 disables the Input)
- 0 (Note 0 disables the Input)

- **Default Time Zones:**

Zone 1). 07:30

Zone 2). 19:30

- **Default IO Logic (Relay Output 6):**

- Combo 1.** 1,2,3,4
Combo 2. 1 & 4
Combo 3. 1 & 5
Combo 4. 1
Combo 5. 1

9. Notes

[illegible]

DEVICE PROPERTIES

Room No.	Device ID	Timer Names	Timer Settings	Output 6 Logic	Security	Special



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